Form C-104 Rev. 9/02

CONSTRUCTION VALUE ENGINEERING CONCEPT PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

		Date 03-21-08
Contract ID 070525-403		Job No
County Clay	Route I-435	Original Bid Cost \$5,596,703.69
Contractor Chester Br	oss Construction Company	By Dan Buckman
Designed By Dan Buckn	an	Phone 573-221-5958
VECP 08-	. ,	
- ·		lange(s). Advantages/Disadvantages
See Attached, Advantages	Substantial Cost Savings.	
2. Estimate of reduction is	s construction costs — os as	5 151 75
		7,151.25 1ave on other department costs, such as
maintenance and opera		
		ervice life. No significant increase in
Maintenance costs anticipa	ted.	
	•	
		Pitano marked by Gration 104 & of the
4. Anticipated date for sul Specifications.	omittal of detailed change(s) of	f items required by Section 104.6 of the
Observations	,	•
	. 3-24-08	
	(date)	
		I the water the effect of contract
Deadline for issuing a c completion time or deli-		m cost reduction, noting the effect of contract
completion time of new	, cry schodator	
3/28/08	Completion date rema	ins the same
(date)		(effect)
, ,		
6. Dates of any previous o	r concurrent submission of the	same proposal.
	NT .	
	None (data and/on d	ataal
-	(date and/or d	ates)

Existing Requirments

SP125 SMA	29,629 @ \$74.70	\$2,213,286.30
SP190 B	33,885 @ \$56.15	\$1,902,642.75
BP-1	14,452 @ \$36.20	\$523,162.40
BP-2	9,654 @ \$38.45	\$371,196.30
Tack	20,890 @ \$0.75	\$15,667.50
	•	\$5,025,955.25

Proposed Change #2

SP-190B 2" Ultrathin Bonded Wearing Surface, Type 0	33,885 @ \$56.15 296,811 @ \$4.78	- \$1,902,642.75 - \$1,418,756.50
BP-1 2 %" Tack	17,677 @ \$36.20 10,000 @ \$0.75	- \$639,904.82 <u>- \$7,500.00</u>
Estimated Reduction in Construction Costs		\$1,057,151.25

Additional Comments:

** Portion Below This Line To Be Filled Out by MoDOT **

proposal # 2. would underru for pavement s	location and existing pavement type from proposal We will have the structure of the 2 inches of SP190 in an 1 3/4" BP-2 on the shoulders. I would recommend substitutions by our pavement specialist. Also I think ATC or a VE. We would be sacrificing smoothnes	capped with UBAWS. We nend empirical data be looked at ik there should be a discussion
	L'Allows Production	3-24-00
l	Submitted By Resident Engineer	Date
Comments:	EE ATTACHED MEMO	
Approval Recommended	Beth Wright	3/26/08
Rejection Recommended	District Éngineer	Date
Comments:	,	
,		
Approval		
Rejection	State Operations Engineer	Date

Distribution:

Resident Engineer, District Operations Engineer, State Operations Engineer *Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

MEMORANDUM



Missouri Department of Transportation

D4 - Administration

TO:

Dave Ahlvers-cs

CC:

Dennis Bryant-cs

FROM:

Beth Wright-D4ao
District Engineer

DATE:

March 25, 2008

SUBJECT:

I-435, Clay Ct.

Job No. J4I1331 & J4I1332

Value Engineering Proposal – Chester Bross Construction

The reason for this correspondence is to provide the formal District response to the valueengineering proposal submitted on the above referenced project. Our position and recommendations is as follows:

- 1. Concurrent with our Resident Engineers response to VE Proposal #1, complete elimination of the asphalt base and surface in lieu of UBAWS is not acceptable. We believe the pavement structure and condition preclude the elimination of the SP 190 base course asphalt. Additionally, the shoulder condition precludes the elimination of the asphalt resurfacing as provided in the original plan.
- 2. Concurrent with our Resident Engineers response on VE Proposal #2, the use of UBAWS in lieu of the surface asphalt (125 SMA) and the cross section reduction of 1" of asphalt on the entirety of the shoulders are acceptable. Additionally, we concur with the Resident Engineers evaluation of the VE. Due to the loss of pavement structure provided by the 1¾" of 125 SMA we believe the proposal to be a Practical Design VE. This designation of Value Engineering is split on a 75% owner / 25% contractor basis.

Additionally, we would need to address the smoothness requirements. The current two lift construction method engages section 403.20.2 Profilographing specification. This Value Engineering proposal does not address the issue of the smoothness requirements that may or may not be applied in this situation. The District is not willing to sacrifice ride quality or accept a substantial amount of marred surface. The issues of smoothness will need to be addressed as part of the SP 190 lift to assure a quality ride in the UBAWS. If practical, we recommend the application of section 502 to the SP 190 lift prior to the UBAWS and apply section 403.20.1 to the surface lift.

Upon consideration of this proposal, if you have any questions or require additional clarification please do not hesitate to call the DCME, Perry Allen, at 816-622-6340.

CHESTER BROSS CONSTRUCTION COMPANY

P.O. Box 430 Hannibal, MO 63401

Chester Bross, President "Equal Opportunity Employer"

Ph: 573-221-5958 Fax: 573-221-1892

March 21, 2008

Mr. Gregory Stervinou MODOT 1900 NW Cookingham Drive Kansas City, MO 64155

RE:

Job No. J411331 & J411332

Rt. 435 - Clay County

Dear Mr. Stervinou:

The attached Value Engineering Proposals with supporting documentation are for your review and consideration. We have proposed two (2) separate scenarios with substantial savings involved with both.

It shall be understood these are Value Engineering Proposals with MoDOT and Chester Bross Construction Company sharing in the savings on a 50/50 basis.

Both proposals are based on oil prices at the time the 1331 job was bid in May of 2007. They are conditional on the index applying to both Nova Chip and asphalt mixes.

We hope you realize the utmost importance of a very early and quick review with decision to be made within the next week as we have material being made for the project as originally bid.

We would appreciate your earliest concurrence to either proposal.

If you have any questions, please contact me at (573) 221-5958.

Sincerely,

Daniel Buckman Project Manager

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK (Check one that applies) Bridge/Structure/Footings Drainage Structures (RCP, RCB, CMP's, ect.) TCP/MOT Paving (PCCP, ect.) Grading/MSE Walls Signal/Lighting/ITS Misc.

SUMMARY OF PROPOSAL (If needed, condense summary to a couple of lines)
Substitute UBAWS for SP 125 SMA on the final surface

SCANNING OF DOCUMENT	
If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.	
Proposal is not lengthy.	
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